

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (withdrawn) A method for producing a vaccine containing an immunogenic determinant, comprising the steps of:
 - a) exposing extra-cellular pathogenic organisms to stress-inducing stimuli which would induce the production of stress protein/antigenic peptide fragment complexes;
 - b) extracting the endogenous stress-induced products from the treated cells; and
 - c) using the extracted products as the immunogenic determinant in the preparation of the vaccine composition.
2. (withdrawn) The method as claimed in claim 1, wherein the active ingredient of the immunogenic determinant predominantly comprises one or more shock protein/antigenic peptide fragment complexes.
3. (withdrawn) The method as claimed in claim 1, wherein the stress-inducing stimulus is heat.
4. (withdrawn) The method as claimed in claim 3, wherein the pathogenic organism is heated to from 5 to 8°C above the normal temperature for cultivation of the organism.
5. (withdrawn) The method as claimed in claim 1, wherein the pathogenic organism is an extra-cellular procaryotic or protozoan species.
6. (withdrawn) The method as claimed in claim 1, wherein the pathogenic organism is a bacterial, protozoal or fungal species.

7. (withdrawn) The method as claimed in claim 1, wherein the immunogenic determinant is a mixture of heat shock protein/antigenic peptide fragment complexes.
8. (withdrawn) The method as claimed in claim 1, wherein the extra-cellular pathogenic organism has been modified to induce or enhance the induction of the synthesis of stress proteins.
9. (withdrawn) The method as claimed in claim 1, wherein the method is carried out in vitro.
10. (currently amended) A vaccine composition comprising an immunogenic determinant, wherein the immunogenic determinant comprises one or more complexes between a stress induced heat shock protein and an antigenic peptide fragment ~~derived~~ obtained from the heat treatment of an extra-cellular pathogenic organism.
11. (currently amended) A vaccine composition produced by the method ~~of claim 1, as claimed in claim 1,~~ comprising the steps of:
exposing extra-cellular pathogenic organisms to stress-inducing stimuli which would induce the production of stress protein/antigenic peptide fragment complexes;
extracting the endogenous stress-induced products from the treated cells; and
using the extracted products as the immunogenic determinant in the preparation of the vaccine composition.
12. (previously presented) A vaccine composition as claimed in claim 10, wherein the composition comprises an adjuvant for the immunogenic determinant.
13. (previously presented) The vaccine composition as claimed in claim 10, which is an aqueous composition.

14. (currently amended) A method for treating an animal with a vaccine directed to an extracellular pathogenic organism comprising administering a pharmaceutically acceptable quantity of a vaccine composition as claimed in claim 10 sufficient to elicit an immune response in the animal.

15. (withdrawn) A method for eliciting an immune response from an animal to infection by an intra-cellular pathogenic organism the method comprising:

administering a vaccine containing an immunogenic determinant, the immunogenic determinant being a stress protein/antigenic peptide fragment complex produced in situ from the intra-cellular pathogen, the synthesis of the complex being induced by external stress stimuli or by genetic modification of the pathogen so as to render its synthesis constitutive.